

## LIFE HISTORIES OF NORTH AMERICAN GEOMETRIDAE. — XXXV.

BY HARRISON G. DYAR, WASHINGTON, D. C.

*Coryphista badiaria* Hy. Edw.

*Egg.* Elliptical, rounded, two sides flattened, wedge shaped, the large end truncate for a small space, all without sharp angles; coarsely hexagonally reticulate, the lines raised, broad, rounded, the spaces between forming flat hexagons, rather regular; all pale yellow; size  $.9 \times .6 \times .5$  mm.

*Stage I.* Head round, erect, scarcely bilobed; luteous, shining; ocelli black, mouth brown; width about .4 mm. Body cylindrical, normal, short, the segments not elongate but the ends somewhat contracted; all translucent yellowish, the food showing faintly green; not shining. No shields differentiated; tubercles and setae minute, black. Segments slightly folded, whitish; feet pale, normal; no markings. Later very faint, fine, whitish subdorsal and lateral lines, joints 10 to 13 subdorsally shaded with dull reddish.

*Stage II.* Head round, thick, erect, slightly bilobed, pale pinkish flesh color; width .7 mm. Body moderate, rather thick, incisures a little depressed, uniform, smooth. Tubercles slightly elevated, a little blackish; setae rather long, dark. Olivaceous green, a fine addorsal whitish line; a broad, subdorso-lateral, olive gray shade-band; substigmatal band broad, whitish; venter dusky shaded. Feet pale sordid green, normal.

*Stage III.* Head rounded, bilobed, free, pale red, yellowish in the sutures; width 1.2 mm. Body cylindrical, robust, uniform, smooth; black, shields a shade redder; dorsal space diluted luteous. Addorsal and subdorsal broken, narrow obscure white lines; broad stigmatal white line, from tubercle iii to v, geminate, luteous filled, yellow about the spiracle; a white line to anal foot. Venter somewhat diluted. Tubercles small, round, black; feet black, abdominal claspers reddish. Setae dark, fine, obscure. Not shining.

*Stage IV.* Head shining orange; width 2 mm. Body robust, the ends somewhat smaller. Purplish black, dorsal lines broken, nearly absent; stigmatal white band enlarged on the segments a little, yellow at the spiracles, luteous dotted centrally. Feet, except the shield of joint 13, reddish. Tubercles small, black; a white line on the foot joint 13.

Pupation in the ground, or between leaves.

*Food plant.* The larvae were found only on *Berberis repens* and would eat no other plant. Several brooded; imago emerged June 18th. Eggs from captured ♀♀ June 20 and July 7th. Larvae from various places in the foothills of the Rocky Mountains; back of Golden and Boulder, Colorado and in the Platte Canyon.

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